

1-EF-5 1-EF-4 -(1-MAU-30)-1-1/4" MPS 1-1/4" CHS & CHR J 3/4" MPR -

NORTH PENTHOUSE

CODED NOTES EXISTING PIPING

MEDIUM PRESSURE STEAM SUPPLY. (PIPING SIZES TO BE FIELD VERIFIED BUT SEEM TO BE 1-1/2" MEDIUM PRESSURE STEAM SUPPLY).

STEAM RETURN

CHILLED WATER SUPPLY. (PIPING SIZES TO BE FIELD VERIFIED BUT SEEM TO BE 1-1/4" CHILLED WATER SUPPLY).

CHILLED WATER RETURN. (PIPING SIZES TO BE FIELD VERIFIED BUT SEEM TO BE 1-1/4" CHILLED WATER RETURN).

CONDENSATE DRAIN

BASE BID: ALL EXISTING DUCTWORK BEING SERVED BY MAU-30 & MAU-31 ON THIS FLOOR SHALL BE PRESSURE TESTED, THOROUGHLY CLEANED, AND SANITIZED TO AVOID THE POSSIBILITY OF CONTAMINATION.

> DEDUCT ALTERNATE 1 DEDUCT ALL TESTING AND CLEANING OF EXISTING DUCTWORK ASSOCIATED WITH UNITS MAU-14, 15, 30 & 31.

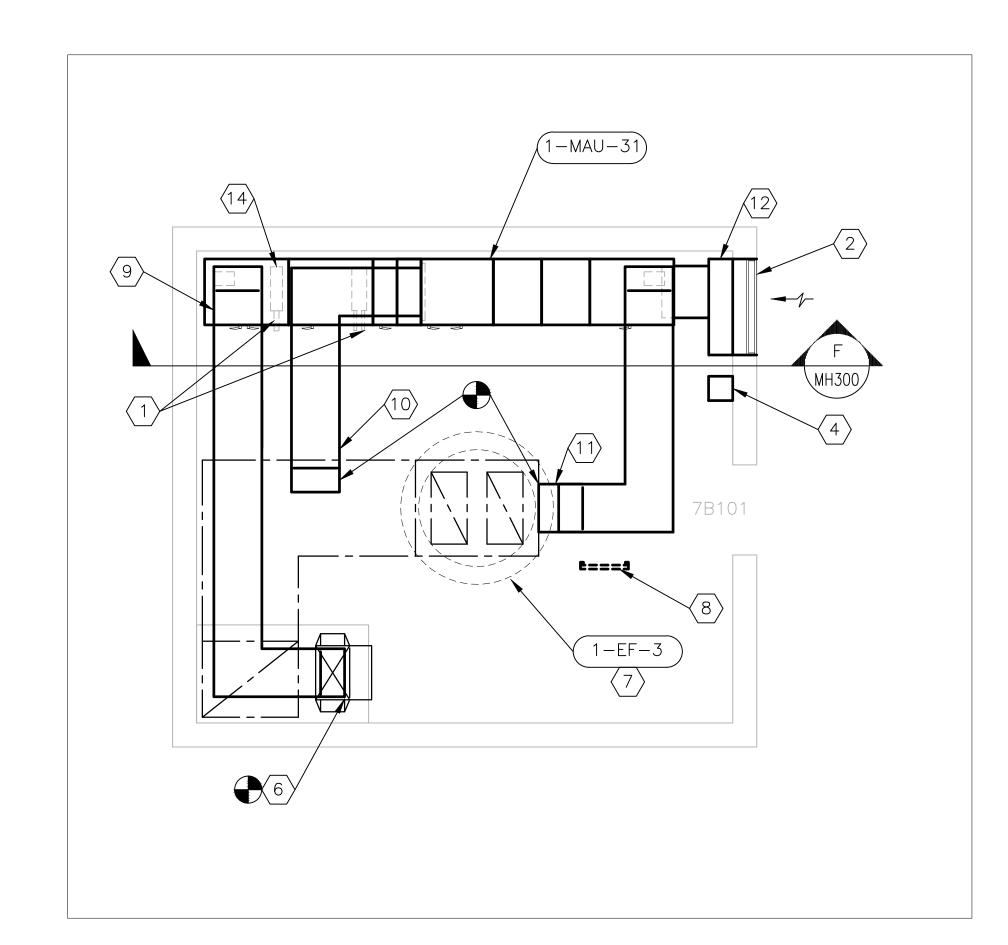
CODED NOTES NEW WORK

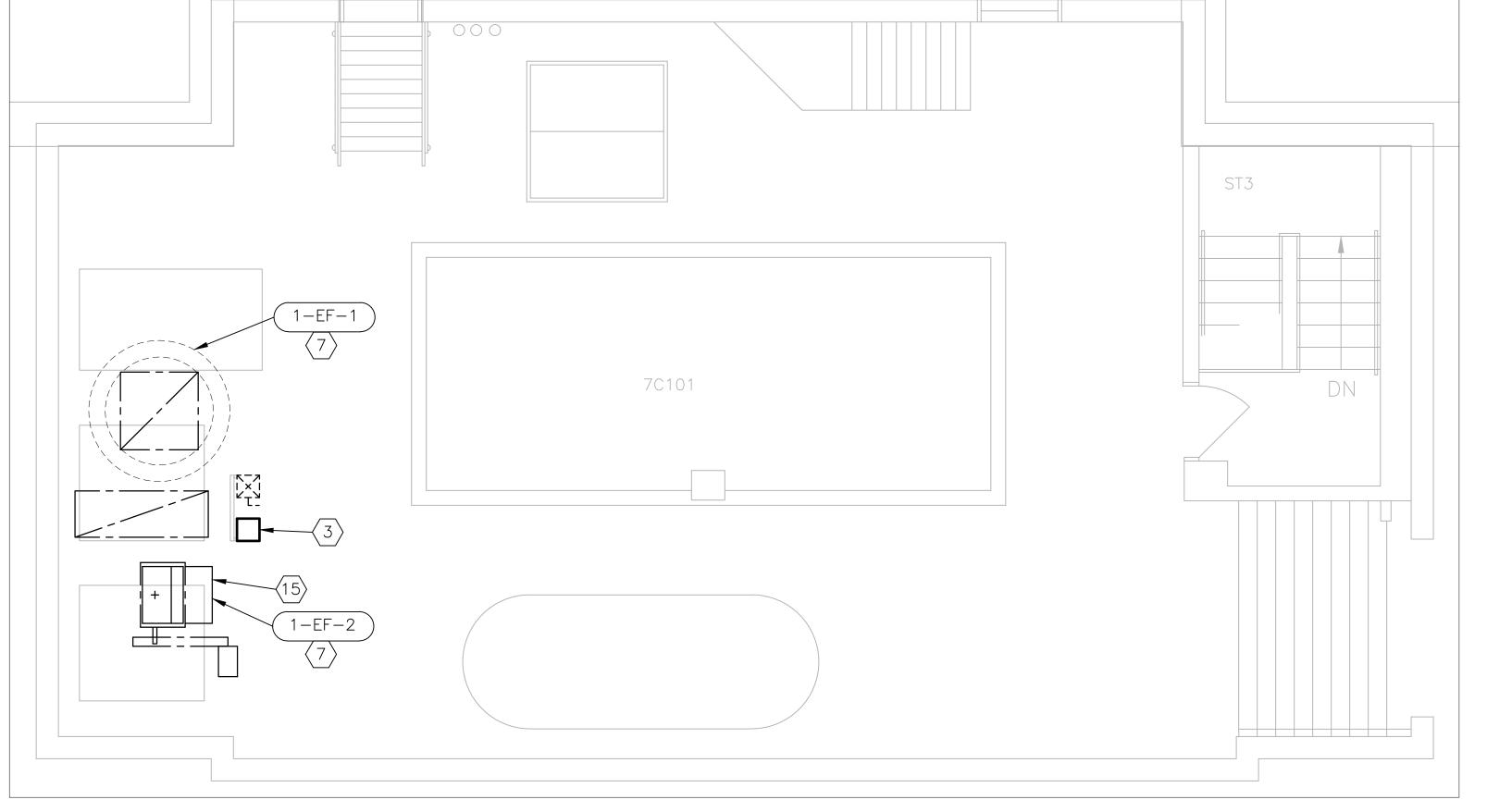
- COMPLETE STEAM AND CHILLED WATER COIL PIPING TO CONNECT INTO EXISTING PIPING WITH-IN PENTHOUSE.
- NEW 32"x48" INTAKE LOUVER.
- NEW VFD FOR EXHAUST AIR FAN (1-EF-2). WIRING PROVIDED BY ELECTRICAL CONTRACTOR.
- NEW VFD FOR EXHAUST AIR FAN (1-EF-3). WIRING PROVIDED BY ELECTRICAL CONTRACTOR.
- NEW VFD FOR EXHAUST AIR FANS (1-EF-4) & (1-EF-5). WIRING PROVIDED BY ELECTRICAL CONTRACTOR.
- CONNECT NEW 24"x12" SUPPLY AIR DUCT FROM MAU TO EXISTING CAPPED OFF DUCT (SEE SHEET MH107 FOR CONTINUATION). REMOVE CAP BEFORE MAKING FINAL CONNECTION.
- PROVIDE DDC EQUIPMENT TO ALLOW REMOTE CONTROL OF EXHAUST FAN.
- REMOVE METAL STRUT MOUNTING POST ASSEMBLY AFTER ELECTRICIAN HAS MOVED ALL APPARATUS.
- 24"X12" SUPPLY AIR DUCT TO CONNECT INTO EXISTING
- SUPPLY AIR DUCT SUPPLYING THE 6th FLOOR.
- CONNECT NEW 24"x12" EXHAUST DUCT TO EXISTING EXHAUST MAIN AS FAR AS POSSIBLE FROM EXISTING FAN(S).
- CONNECT NEW 24"x12" EXHAUST DUCT TO THE END OF THE EXISTING EXHAUST DUCT HEADER.
- 12" DEEP INTAKE AIR PLENUM SIZED AS REQUIRED TO MAKE CONNECTION BETWEEN THE OUTSIDE AIR LOUVER AND THE
- FULL SIZE DUCT TO CONNECT BETWEEN THE PLENUMS OF THE SPLIT MAKE UP AIR UNIT.
- MAU-30 AND MAU-31 MUST BE ORDERED WITH THE STEAM HEATING COIL MOUNTED 8" HIGHER IN THE COIL MODULE COMPARED TO THE HEIGHT OF THE FACTORY MOUNTING.
- REBALANCE EXHAUST FAN NUMBER 2 TO INCREASE THE CURRENT EXHAUST AIR AMOUNT TO 26,400 CFM.

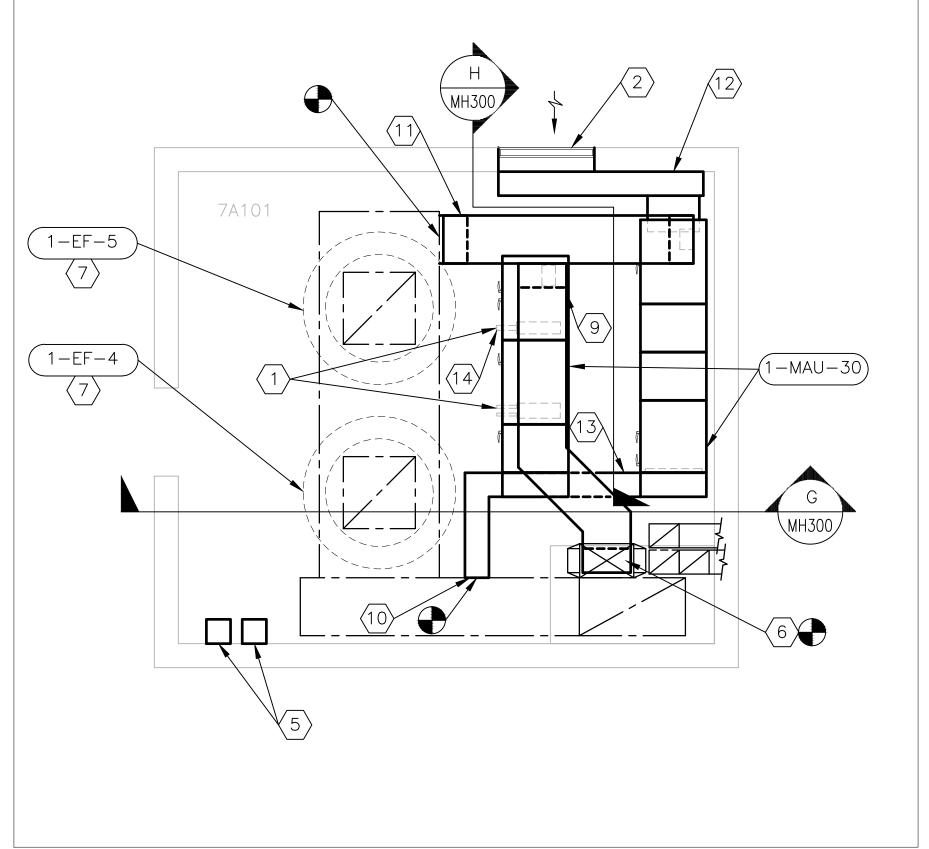
SOUTH PENTHOUSE

MECHANICAL PENTHOUSE FLOOR PLAN







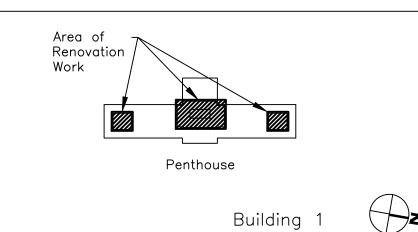


SOUTH PENTHOUSE CENTRAL PENTHOUSE NORTH PENTHOUSE

MECHANICAL PENTHOUSE FLOOR PLAN

1/4" = 1'-0" DUCT WORK NEW WORK









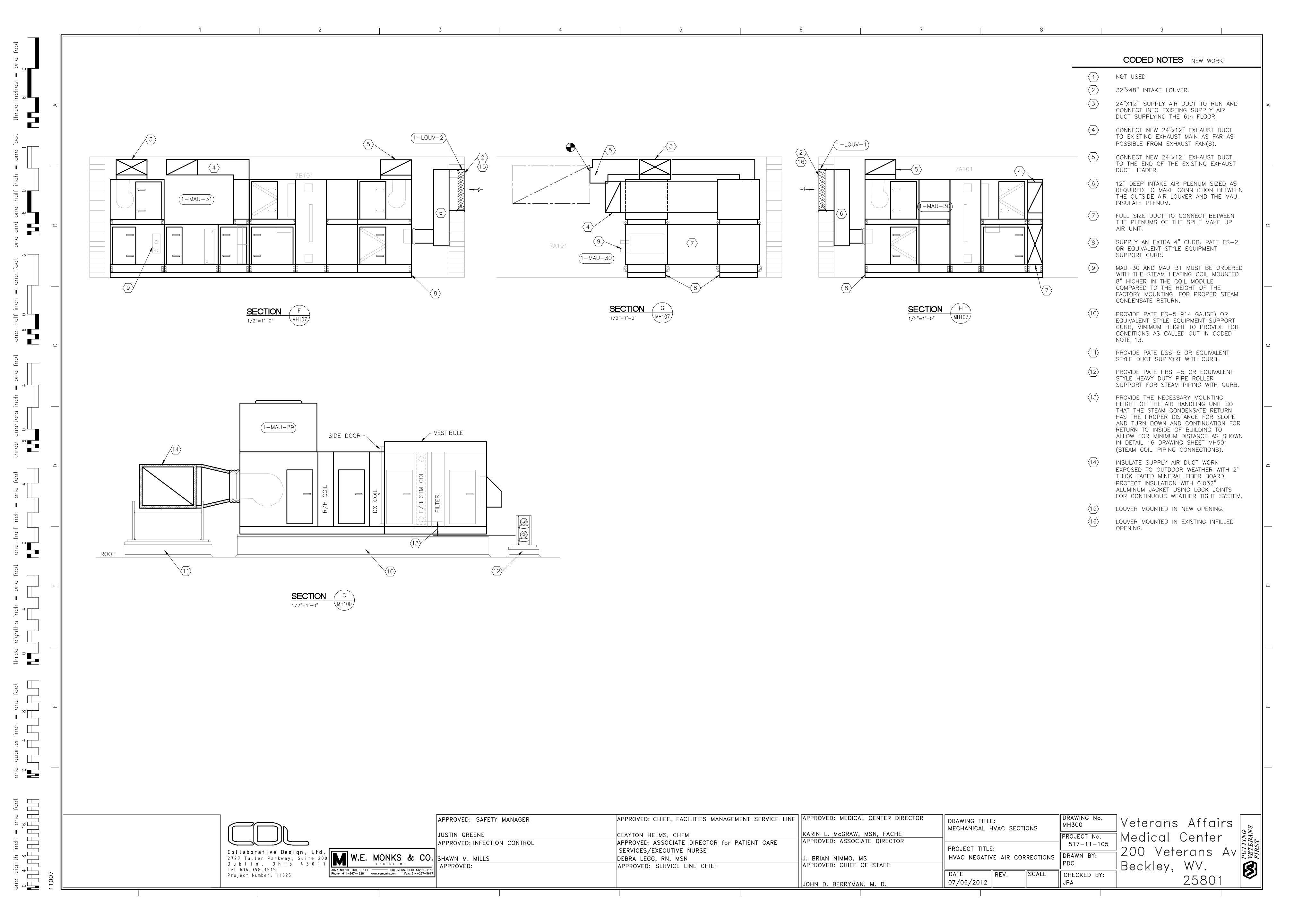


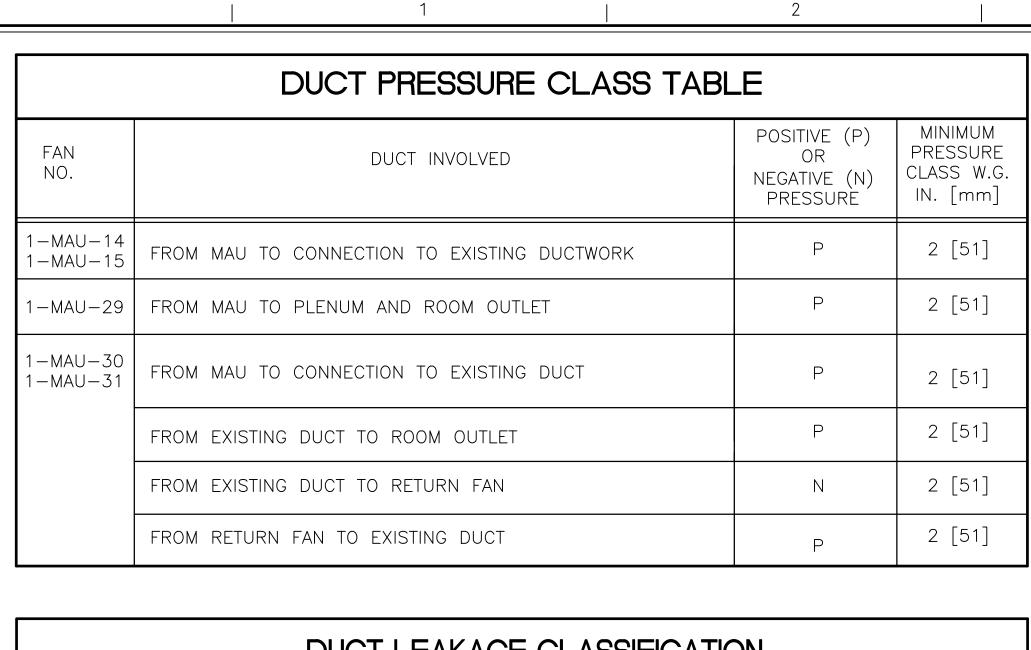
	JUS APP
MONKS & CO.	SHA
COLUMBUS, OHIO 43202—11.9 www.wemonks.com Fax: 614—267—5617	

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CONTROL	SERVICES/EXECUTIVE NURSE
SHAWN M. MILLS	DEBRA LEGG, RN, MSN
APPROVED:	APPROVED: SERVICE LINE CHIEF

APPROVED: MEDICAL CENTER DIRECTOR	DRAWING TITLE			DRAWING No. MH107
APPROVED: ASSOCIATE DIRECTOR	MECHANICAL N	EW WORK		PROJECT No. 517-11-105
J. BRIAN NIMMO, MS	PROJECT TITLE HVAC NEGATIV		RECTIONS	DRAWN BY:
APPROVED: CHIEF OF STAFF	DATE	REV.	SCALE	CHECKED BY:
JOHN D. BERRYMAN, M. D.	07/06/2012			JPA

Veterans Affairs Medical Center 200 Veterans Av Beckley, WV. 25801

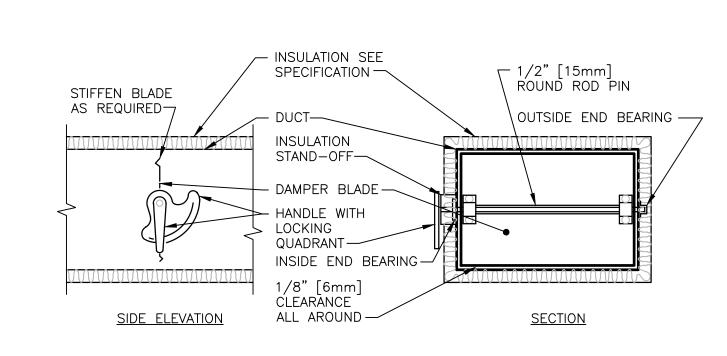




DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE TABLE SMACNA LEAKAGE CLASS DUCT PRESSURE SEAL **APPLICABLE** CLASS, W.G. RECTANGULAR ROUND CLASS SEALING IN[mm] DUCT DUCT 1/2", 1", 2" TRANSVERSE JOINTS ONLY [13, 25, 51]

JOINTS, SEAMS AND ALL

WALL PENETRATIONS

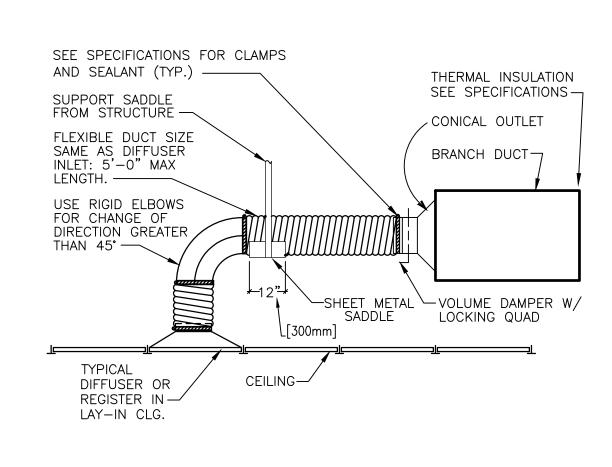


NOTE: 1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.

2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR

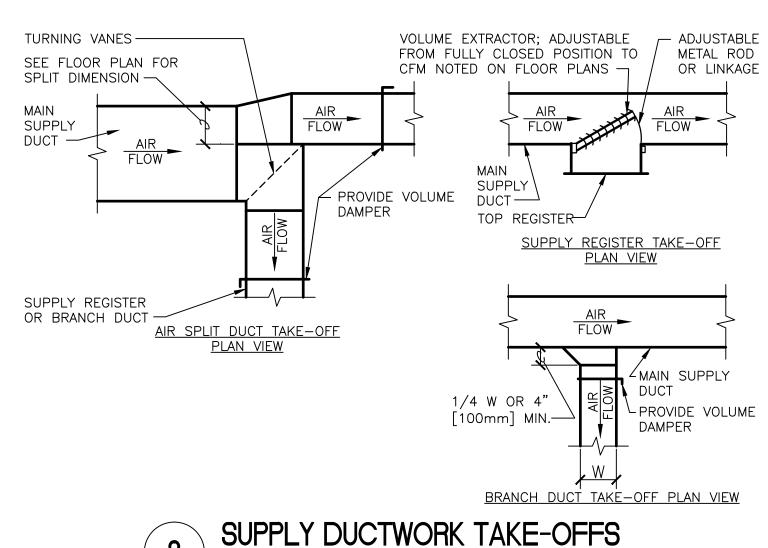
VOLUME DAMPER DETAIL

FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

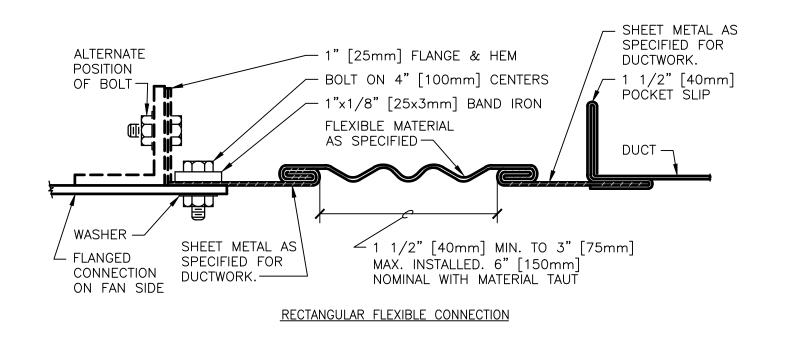


FLEXIBLE AIR DUCT CONNECTOR

∕1" LPS SLOPE DOWN TOWARD MAIN

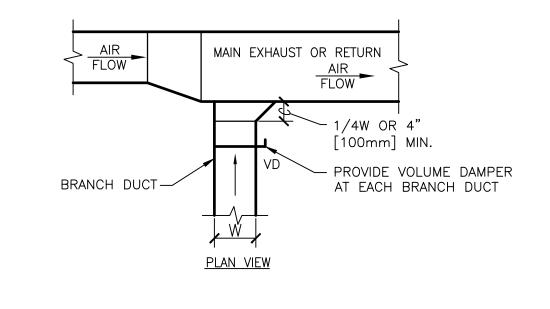


SUPPLY DUCTWORK TAKE-OFFS

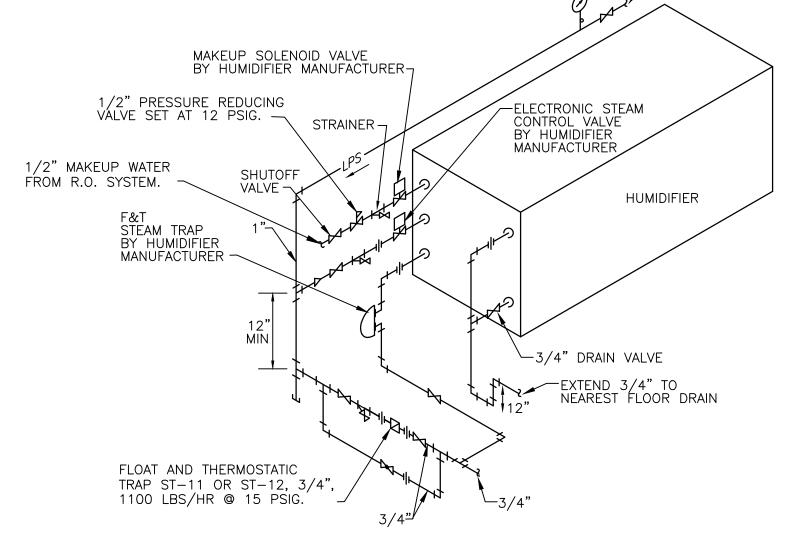


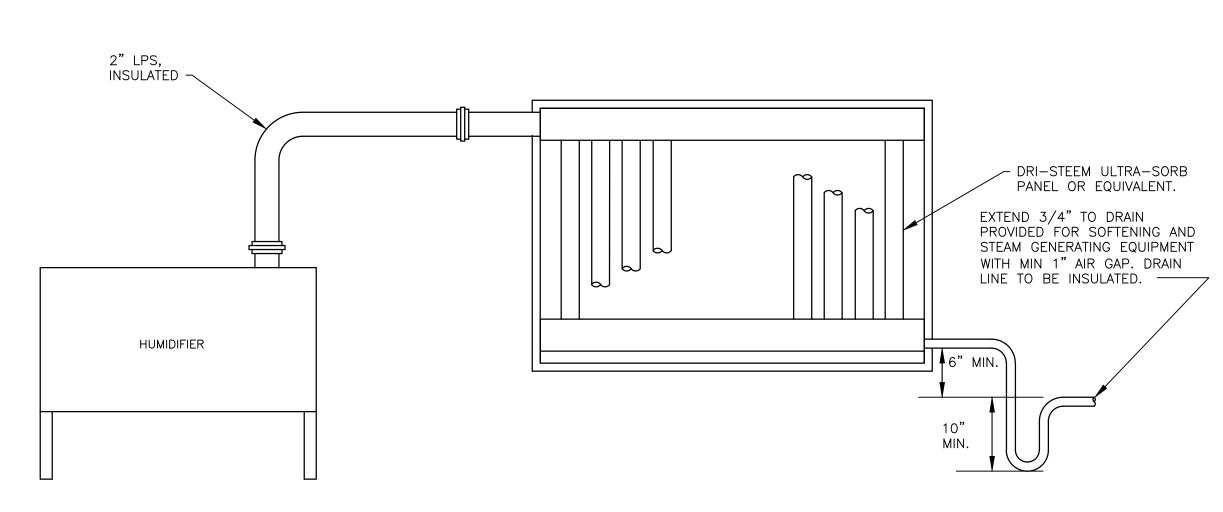


[102]

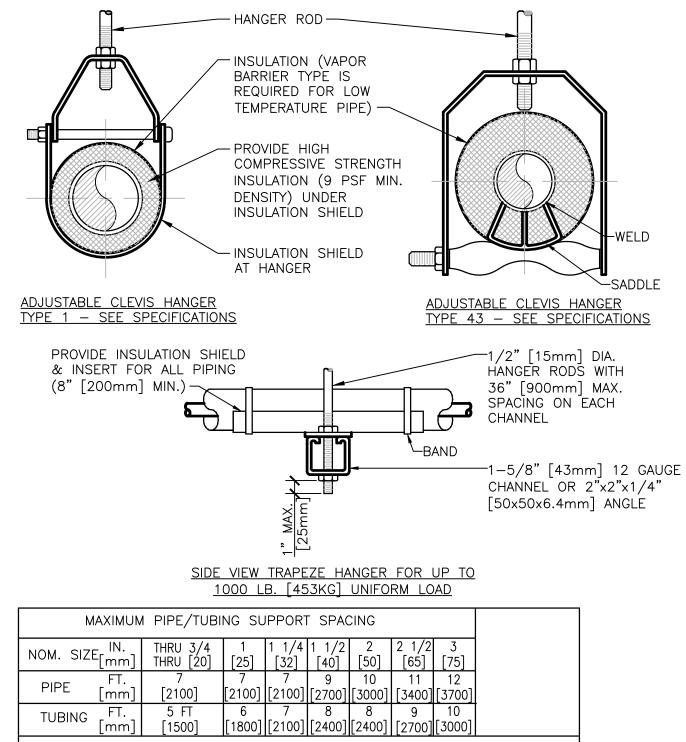


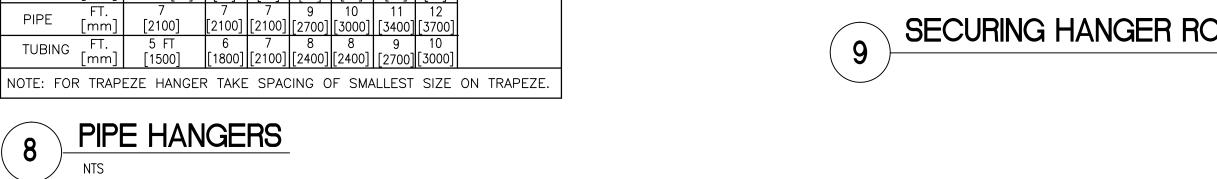
EXHAUST OR RETURN BRANCH DUCTWORK

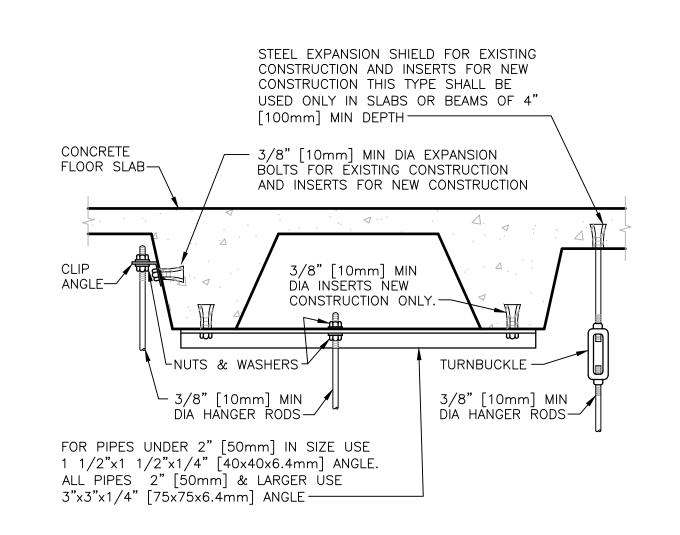




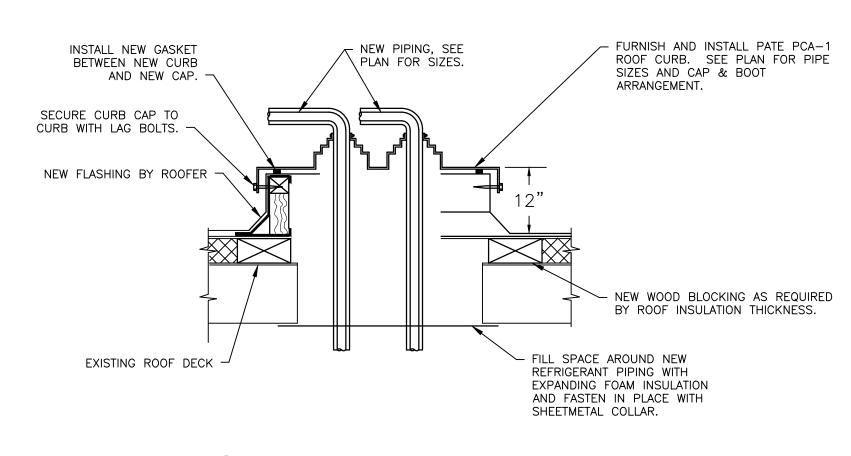
STEAM HUMIDIFIER MANIFOLD DETAIL











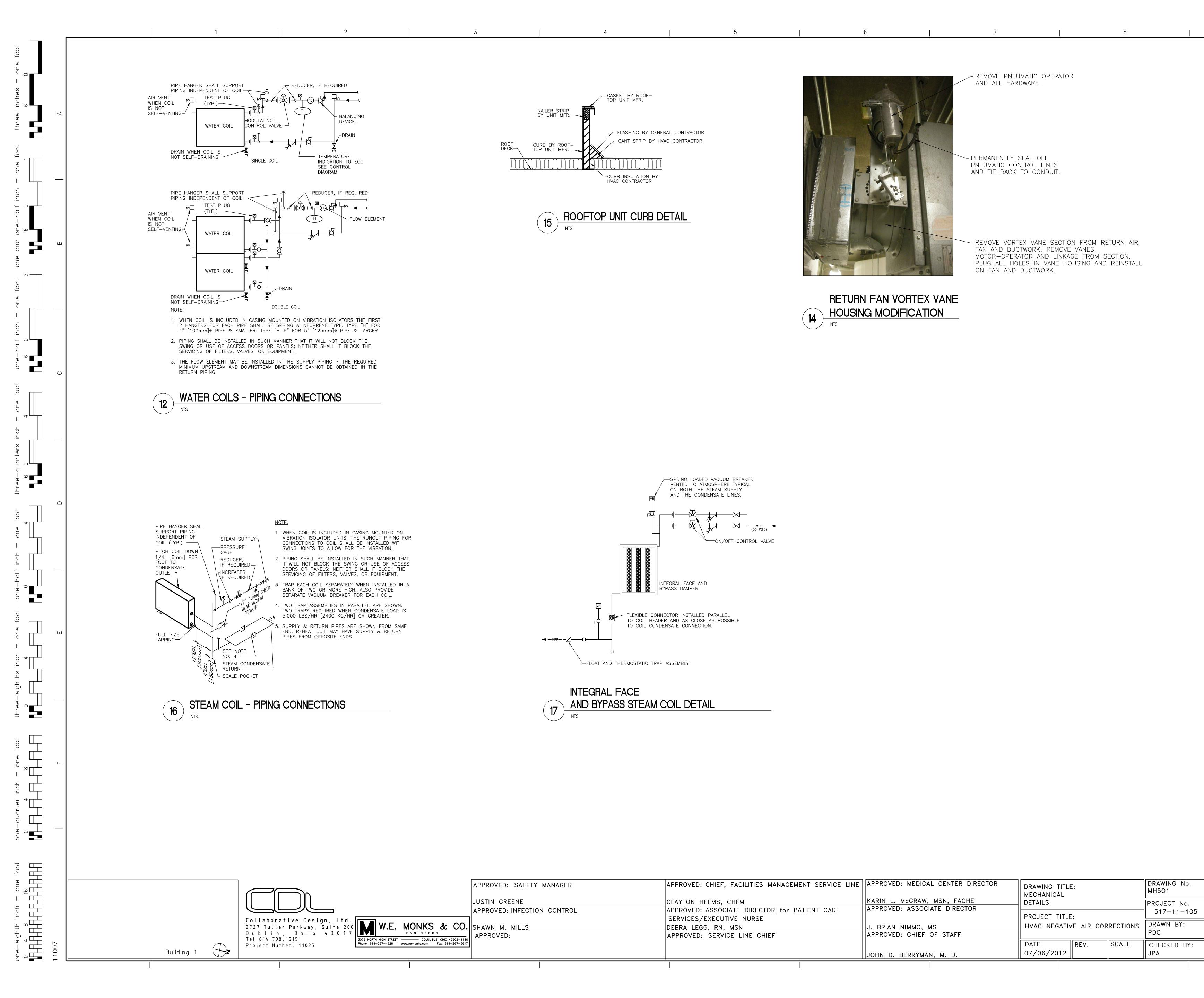
Collaborative Design, Ltd. 2727 Tuller Parkway, Suite 20 Dublin, Ohio 43017 Tel 614.798.1515 Project Number: 11025

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		SERVICES/EXECUTIVE NURSE
CO.	SHAWN M. MILLS	DEBRA LEGG, RN, MSN
202-1180	APPROVED:	APPROVED: SERVICE LINE CHIEF
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APPROVED: MEDICAL CENTER DIRECTOR	DRAWING TITLE	Ξ:		DRAWING No.	l Ve
KARIN L. McGRAW, MSN, FACHE APPROVED: ASSOCIATE DIRECTOR	MECHANICAL DETAILS			PROJECT No.	l Me
J. BRIAN NIMMO, MS APPROVED: CHIEF OF STAFF	PROJECT TITLE		RECTIONS	DRAWN BY: PDC	20 Be
JOHN D. BERRYMAN, M. D.	DATE 07/06/2012	REV.	SCALE	CHECKED BY: JPA	

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Medical Center
Moo Veterans Av
Beckley, WV.
25801



Veterans Affairs 200 Veterans Beckley,

					1					2					3						4		1		5		6	7
											ROOFT	OP UNIT	SCHEL)III F														
		AR AND	/OR				1	AIR FLO	W		SUPP	LY RETURN	OR DE	REFILTER	AFTER	i	3	PRE	HEAT (COOLING	AIR COO	DLED	ELECTRICAL					
MARK	LOCAT	ION BLI	OG IYI	PE /	AIR FLOW	SUPPL	Y [L/s]	MIN OA		RETURN CFM [L/s	FAN MAR	1	-AN	MARK	* FILTER MARK		REHEA ⁻ MAF	I COIL COIL	MARK C		CONDEN UNIT MA	ARK -	460/3/60 MCA MOP	REMARKS				
1-MAU-29	ROC	KITC F 8	ENGINE	3	CV	8000 [[3800]	8000 [3800]] 0] 1-SF2	9 N/A		1-PF29	N/A	N/A	1-HGF	R29 1-P	HC29	1-DXCC29	1-ACCU	J29	79 100	1				
		1				- 1			DIR	ECT EXP	ANSION	COOLIN	G COIL	SCHE	DULE	i .	1				•	,	,	:				
MARK	LOCA	AR AND	OR SYST		AIR FLOW	MAX F		APD	***************************************	Db	EAT	Vb	Db	LAT	Wb	— TOTAL	. CAPACITY	SENSIBI CAPACI	V	EFRIGERA	CLIOT	TURATED TION TEMF) PEN	MARKS				
WATER	LOOA	SER	VED SERV		M [L/s]	FPM	[M/s]	IN WG	[Pa]	°F [°C			°F [°	C]	°F [°C	C] MBH	l [kW]	MBH [kW]	LITTIOLITY	°F	[°C]	INCI	VIAITO				
1-DXCC29	ROC	KITC F & BASE	1-MAU	-29 800	00 [3800]	495	[1]	1.02	260	84.6 [29	70	[21]	55 [1	3]	54 [12	417.6	[1400]	267.2 [910]	410A	45	[7]						
					1		,	AIR COC	LED C	CONDENS	ING UN	IT SECTION	-				CONDEN	JOED FAN MO	TOD									
MARK	LOCAT	ON ARE	OR SYSTE	R TY	PE REF	MIN RIGERATION	N REF	FRIGERANT		X SUCTION MP @ COMP	oa te	IVII	1		DR MOTOR		NOMI	/ FD			REMA	ARKS						
		SER\	ED SERVIC	***	MBI	H [kW]			°F	[°C]	°F	[°C]	* # COM	P PHA	SE VOL	I # FANS	HP	[W]	ASE VO	LI								
1-ACCU29	ROOF		1-MAU-	101	ROLL 23	[78]		410A	45	[7]	84.6	[29] 9.7	4	3	460	2	1.5	[1100]	3 46	0								
		ARE						AIR FLOW	 			NDLING U		HEDU	LE													
MARK	LOCATION	ON AND/O	OR TYP	E A	IR FLOW	SUPPLY	/	MIN OA	- 1	RETURN	SUPPL' FAN MARK	RELIEF F	AN EAN	AUST MARK	PREFILTE MARK	R AFTE FILTE MAR	ER FINA ER FILTE EK MAR	IL HEA ER RECOVI	RY CO		COOLING COIL MARK	REHEA COIL	T HUMIDIFI MARK	: PLM	IRKS			
1-MAU-14	SOUTH 3rd	3/4 500	TH PRE	i			-	CFM [L		OFM [L/s]	1-SF14			I/A	1-PF-14					-PHC14	1-CWCC14	1-RHC14	4 1-SH14					
1-MAU-15	NORTH 3rd ROOF	FLR 3/4 NOF	ENGINEE	-				-	900]	0 []	1-SF15			I/A	1-PF-15					-PHC15	1-CWCC15	1-RHC1						
1-MAU-30	7A-101	6 NOR	ENGINEE	RING		1800 [8	850]	1800 [8	50]	0 []	1-SF30	N/A	1-6	F30	1-PF-30	N/A	N/A	2-RAHX	30 1-	-PHC30	1-CWCC30							
1-MAU-31	7B-101	6 SOU	H PRE ENGINEE	1		1800 [8	850]	1800 [8	50]	0 []	1-SF31			E31	1-PF-31	N/A	N/A	2-RAHX	31 1-	-PHC31	1-CWCC31					_		
		AREA	SYSTEM									FAN SO	HEDUI	LE						MOTOR	R ELECTRICA	AL.						
MARK	LOCATIO	AND/O	AND/OR		FLOW	TSP		TYPE	WH	HEEL CLAS	S RC	RANGEMENT TATION, AND	<u> </u>	DIAMETER) 11011/		TVOIVIIIV	AL POWER	— PHA	SE VOLT	RPM	SPEED CONTROL	CONTROL SEQUENCE	REMARKS			
1-SF14 S	OUTH 3rd F	SERVE 3/4 SOUT		8300	[L/s]	5.5 [14	100.1	REAR INLET	AIR	RFOIL II		DISCHARGE	18		nm] EF	BELT	2923		IP [kW		208	3600	VARIABLE					
1-SF15 N	ORTH 3rd F ROOF	LR 3/4 NORT	H 1-MAU-15	8300	[3900]	5.5 [14	100.1	REAR INLET NTEGRAL DIFF	AIR	RFOIL II			18	[4	150]	BELT	2923		20 [15] 3	208	3600	VARIABLE					
1-SF29	ROOF	KITCHEI BASEMEN	T 1-MAU-29			3.4 [85	50] [OOUBLE WIDTH OOUBLE INLET UPBLAST	DAE	E-DW II WARD		CW ROTATION, DISCHARGE	THD 16.	5 [4	69.0				15 [11		460					_		
1-SF30 1-EF30	7A-101 7A-101	6th NORT			[660]	5 [13 1.5 [38	80.1	UPBLAST	. CU FOR	IRVE "]]	BELT			3 [22 [2		208		VARIABLE VARIABLE					
1-SF31	7B-101	6th NORT	H 1-MAU-31	1400	[660]	5 [13	300.1	UPBLAST CENTRIFUGAL	FOR	IRVE " WARD II IRVE II]	j	BELT	2561		3 [2		208	1800	VARIABLE					
1-EF31	7A-101	6th NORT	H 1-MAU-31	1400	[660]	1.5 [38	80]	UPBLAST CENTRIFUGAL		WARD II IRVE II				[]	BELT	2150		2 [2] 3	208	1800	VARIABLE					
								4			EAT	CHILLEI) WATE	R CO		COIL SC	HEDUL		NIA IRI				CHILLED WAT	ER.				
MARK	LOCATI	ON AREA A		OR	AIR FLOW	MAX F VELO		APE)	Db		Wb	Db	1	Wb		OTAL CAPA	(1 I V)	NSIBLE PACITY	F	LOW	EW	-	LWT	WPD	REMARKS		
1-CWCC6	2A-14	5 2nd AR		CF		FPM 448	[M/s]	IN WG 0.44	[Pa]		C] °F 6] 67.4	[-]	°F 57.7	[°C]	°F 56.9			62] MBH	[kW]	GPM 42.3	[L/s]	°F 45	[°C] °F		FT [M]			
1-CWCC8a	3B-113					552	[3]	0.79	[200]		8] 68.4		57.4	[14]	56.7			52] 132.9	[39]	35.3	[2]	45	[7] 55		.14 [1]			
1-CWCC8b 1-CWCC10	3B-113 3A-111					552 431	[3]	0.79	[200]		8] 68.4 7] 70	[20]	57.4 58.4	[14]	56.7 57.9			52] 132.9 62] 128.8	[39]	35.3 42.3	[2]	45 45	[7] 55 [7] 55		.14 [1]			
1-CWCC14 1-CWCC15	SOUTH 3rd ROOF NORTH 3rd	3/4 An				490 490	[3]	0.83 0.83	[210]		9] 69.8 9] 69.8	1 1	53.6 53.6	[12]	53.4 53.4	- Ti		120] 256.5 120] 256.5	[75] [75]		[5] [5]	44	[7] 54 [7] 54		5.8 [2] 5.8 [2]			
1-CWCC30	7A10 ²					404	[2]		[110]		4] 62.9		54.9	[13]	54			10] 28.2	[8]	7	[.4]	44	[7] 54).9 [.3]			
1-CWCC31	7 B101	6th SC	UTH MAU-	31 140	00 [660]	404	[2]	0.43	[110]	75.1 [2	4] 62.9		54.9	[13]	54 DIII E	[12]	35.1 [10] 28.2	[8]	7	[.4]	44	[7] 54	[12]).9 [.3]			
MARK	100:	ANI	EA SYST	4		AIR F	LOW	MAX F VELO		APD	O I EAW		RATURES		TOTA	L MIN ACITY	ENT CO.	\/A1\/= -	'NIT OO''	STEA			CTE ANA TO A T		EMARKO			
MARK	LOCA	BI BI	DG SERV		PPLICATION	CFM	1	FPM	[M/s]	IN WG	Pa] °I	EAT [°C]	°F	AT [°C]	MBH	[kW]	PSIG	VALVE E	NT COIL		FLOW R [kg/HR]		STEAM TRAP LBS/HR [I		EMARKS			
1-PHC6	2A-					6370	[3000]		3.3			.9 [6]	71.2	[22]	202.4	[690]		[] 5	[35]			ST-1		[290]				
1-PHC8 1-PHC10	3B-1 3A-1		REA B AHU REA A AHU-			9,490 5,300	[4500]		3.2		48] 9.30] 23		60 60	[16]	523.9 207.5	[1800]		[] 5	[35]			ST-2 ST-3		[740]				
1-PHC14	SOUTH RO	Brd FLR 3/4 A				8,300	[3900]		4.6			[-15]	71	[22]		[2000]		[] 50				ST-4		[880] 1				
1-RHC14	SOUTH:	Brd FLR 3/4 A	REA B MAU-	-14		8,300	[3900]	613	3.1	0.13	33] 5	5 [13]	104.4	[40]	404.2	[1400]		[] 50	[350] 435	[200]	ST-5	1305	[590]				
1-PHC15	NORTH RO NORTH	OF S/4 A	REA A MAU			8300	[3900]		4.6			[-15]	71	[22]	595.0	[2000]		[] 50				ST-6		[870] 1				
1-RHC15 1-PHC29	RO	OF KIT(REA A MAU- CHEN MAU-			8300 8000	[3900]		2.9		33] 5 43] 5.	5 [13] 5 [-15]	104.4 70	[40]		[1400]		[] 50				ST-7		[590]				
1-PHC29	7A1	BASE	MENT			1,400	[660]	420	2.9		[8] 47		108.9	[43]		[320]		[] 50				ST-9		[130]				
1-RHC31	7B1	01 6th S	DUTH MAU-					420			[8] 47		0000		93.9			[] 50] 92		ST-11	276					
1. INTEGRAL	FACE AND	BYPASS.						1								,												
) /								AF	PPROVE	D: SAF	ETY MAN	AGER				APF	ROVED: CHI	EF, FACILI	TIES MANAGEMENT SERVICE LI	INE APPROVED: MEDICAL	CENTER DIRECTOR
										-						ISTIN G		CTION CO	NITDOL					YTON HELM		RECTOR for PATIENT CARE	KARIN L. McGRAW, APPROVED: ASSOCIA	

APPROVED: INFECTION CONTROL

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Building 1

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			SUMN	MER				WINT	ΓER			/EST
DESIGN CONDITIONS	TE	MP	WET BUI	LB TEMP	% HUMIDITY	TEI	MP	DEWPOI	NT TEMP	% HUMIDITY	AVEF ANN DEWF	UAL
	۴	[°C]	°F	[°C]		°F	[°C]	۴	[°C]		°F	[°C]
OUTDOOR DESIGN CONDITIONS	84.6	[29]	69.8	[21]	46	5.5	[-15]	-3.2	[-20]	NA	1.5	[-17]
	INDOOR AREA DESIGN CONDITIONS											
PATIENT ROOM	75	[24]	62	[17]	50	70	[21]	32	0	25		><
OFFICE	75	[24]	62	[17]	50	70	[21]	32	0	25		> <
CORRIDOR 75 [24] 62 [17] 50		50	70	[21]	32 0		25		> <			

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			HC	OT GAS	KEHE	AICC	JIL SCI	HEDUL	.E			
		AREA	SYSTEM	٨١	PD	E	AT	L	AT	TOTAL C	APACITY	
MARK	LOCATION	AND/OR BLDG	AND/OR		D)b)b	TOTAL	ALAOITI	REMARKS
		SERVED	SERVICE	IN WG	[Pa]	°F	[°C]	°F	[°C]	MBH	[kW]	
1-HGR29	ROOF	KITCHEN & BASEMENT	1-MAU-29	0.2	50	55	[13]	70	[21]	147	[500]	

Veterans Affairs 25801

DRAWING No. MH600

PROJECT No.

DRAWN BY:

CHECKED BY:

JPA

517-11-105

DRAWING TITLE:

PROJECT TITLE:

HVAC NEGATIVE AIR CORRECTIONS

REV.

SCALE

MECHANICAL

SCHEDULES

07/06/2012

DATE

J. BRIAN NIMMO, MS
APPROVED: CHIEF OF STAFF

JOHN D. BERRYMAN, M. D.

APPROVED: ASSOCIATE DIRECTOR for PATIENT CARE

SERVICES/EXECUTIVE NURSE

APPROVED: SERVICE LINE CHIEF

DEBRA LEGG, RN, MSN

AIR DEVICE SCHEDULE PANEL/FRAME SIZE NECK SIZE AIR FLOW MOUNTING NC DAMPER FINISH REMARKS IN x IN [mm x mm] IN [mm] CFM [L/s] CFM [L/s] IN WG [Pa] SURFACE MTD 12x48 670 [320] 670 [320] 305x1220 FULL NONE WHITE 2,6 CEILING LAY-IN 24x48 610x1220 22x46 559x1168 SG-5 SNGL DEFLECTION 1970 [930] 1970 [930] NONE WHITE 1. SEE FLOOR PLAN FOR THROW PATTERN. 5. BASIS OF DESIGN: TITUS MODEL TMS. 6. BASIS OF DESIGN: TITUS MODEL 8R. . 1-WAY THROW PATTERN. 7. BASIS OF DESIGN: TITUS MODEL 301RS. 3. BASIS OF DESIGN: TITUS MODEL TDC. 4. BASIS OF DESIGN: TITUS MODEL 50F.

											STEA	M HUN	IIDIFE	RSCH	EDULE											
									Е	AT			LA	AT				ST	EAM					TRAP		
MARK	LOCATION	SYSTEM AND/OR SEVICE	HUMIDIFIER TYPE	AIR F	LOW	# OF MANIFOLDS	0)b	V	Vb	DEW	POINT	DEWF	POINT	SOURCE	PRES: VAL		PRES: HEA		FLC	DW	CONTROL TYPE	MARK	CAPA	CITY	REMARKS
		SEVICE		CFM	[L/s]		°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]		PSIG	[kPa]	PSIG	[kPa]	LBS/HR	[kg/HR]			LBS/HR	[kg/HR]	
1-SH-14	3B-110	1-MAU-14	DUCT MOUNTED DISPERSION TUBE	8300	[3900]	1 ULTRA-SORB LV 54"x16" FACE DIMENSION	70	21	45	7	0	-18	32	0	CLEAN STEAM	50	350	15	100	130	59		ST-11	390	[180]	DRI-STEEM MODEL STS-100S
1-SH-15	3A-111A	1-MAU-15	DUCT MOUNTED DISPERSION TUBE	8300	[3900]	1 ULTRA-SORB LV 54"x16" FACE DIMENSION	70	21	45	7	0	-18	32	0	CLEAN STEAM			15	100	130	59		ST-12	390	[180]	DRI-STEEM MODEL STS-100S

		1	l	1							1	CIAN	VI AIIV	IOAII	TILAI	NLOC	VLIVI	VVIIL	EL SCH	LDUL								1				
		***							SUPPI	LY AIR											EXHAU	STAIR							ROTOR	RMOTOR		
MADIC	LOCATION	SYSTEM	MODE	SUPP	LY AIR	۸	\PD		E	ΔT			L	\T		VID I	LOW	٨	PD		EA	AT			LA	NT			NOTO	(WO TOTA		DEMARKS
MARK	LOCATION	AND/OR SERVICE	MODE	FL	OW	А	APD	Г)b	V	/b	[Ob	V	/b	AIK	-LOW	А	טי	[Ob	V	/b	D	b	٧	Vb	LID	EL-VA/I	DUAGE	VOLT	REMARKS
				CFM	[L/s]	IN	[Pa]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	CFM	[L/s]	IN	[mm]	°F	[°C]	°F	[°C]	°F	[°C]	°F	[°C]	- HP	[kW]	PHASE	VOLT	
2-RAHX30	7A101	4 MALL 20	SUMMER	1400	[660]	1.02	[75]	84.6	[29]	69.8	[21]	75.1	[24]	62.9	[17]	1350	[640]	0.99	[25]	70	[21]	58	[14]					0.05	r 1	4	445	4
Z-KAHA3U	7A101	1-MAU-30	WINTER	1400	[660]	1.02	[26]	5.5	[-15]	5.5	[-15]	47.1	[8]	42.9	[6]	1350	[640]	0.99	[25]	70	[21]	58	[14]					0.35 [] 1 11	115	,		
2-RAHX31	7B101	1-MAU-31	SUMMER	1400	[660]	1.02	[75]	84.6	[29]	69.8	[21]	75.1	[24]	62.9	[17]	1350	[640]	0.99	[25]	70	[21]	58	[14]					0.35	f 1	1	115	1
Z-KANAJI	76101	1-IVIAU-31	WINTER	1400	[660]	1.02	[26]	5.5	[-15]	5.5	[-15]	47.1	[8]	42.9	[6]	1350	[640]	0.99	[25]	70	[21]	58	[14]					0.55	l J	ı	110	I

				Bl	JILDING	G • STE	EAM TF	RAP SC	HEDULE			
MARK	LOCATION	SYSTEM	CAPACITY / PRE	AT MIN DIFF ESS	MIN DIF	PRESS	MIN INLET PRESS		TRAP TYPE	TRAP SIZE		REMARKS
IVIATA	LOCATION	AND/OR SERVICE	LBS/HR	[kg/HR]	PSI	[kPa]	PSI	[kPa]	INAP IIFE	IN	[mm]	KLIWAKKO
ST-1	2A-145	AHU-6	633	[290]	2	[14]	2	[14]	F&T	1.0	[25]	SPENCE, MODEL FTN-15
ST-2	3B-113A	AHU-8	1632	[740]	2	[14]	2	[14]	F&T	1.5	[38]	SPENCE, MODEL FTN-15
ST-3	3A-111A	AHU-10	648	[290]	2	[14]	2	[14]	F&T	1.0	[25]	SPENCE, MODEL FTN-15
ST-4	SOUTH 3rd FLR ROOF	MAU-14 PHC	1932	[880]	10	[69]	40	[280]	F&T	1.25	[31]	SPENCE, MODEL FTN-75
ST-5	SOUTH 3rd FLR ROOF	MAU-14 RHC	1305	[590]	10	[69]	40	[280]	F&T	1.25	[31]	SPENCE, MODEL FTN-75
ST-6	NORTH 3rd FLR ROOF	MAU-15 PHC	1920	[870]	10	[69]	40	[280]	F&T	1.25	[31]	SPENCE, MODEL FTN-75
ST-7	NORTH 3rd FLR ROOF	MAU-15 RHC	1305	[590]	10	[69]	40	[280]	F&T	1.25	[31]	SPENCE, MODEL FTN-75
ST-8	KITCHEN ROOF	MAU-29	1797	[820]	101	[700]	40	[280]	F&T	1.25	[31]	SPENCE, MODEL FTN-75
ST-9	7A101	MAU-30	276	[130]	10	[69]	40	[280]	F&T	.75	[19]	SPENCE, MODEL FTN-75
ST-10	7B101	MAU-31	276	[130]	10	[69]	40	[280]	F&T	.75	[19]	SPENCE, MODEL FTN-75

			BUILDING	G • STE	AM PRE	SSURE	REDUC	CING V	ALVE S	CHED	ULE		
		0)/07=1/		REQUIRED CAPACITY		MAX FLOW WIDE OPEN VALVE			PRES	SURE			
MARK	LOCATION	SYSTEM AND/OR	QUANTITY					IN		OUT		REMARKS	
		SERVICE		LBS/HR	[kg/HR]	LBS/HR	[kg/HR]	PSIG	[kPa]	PSIG	[kPa]		
1-SPRV1	3B-110	1-SH-14	1	130	[59]	165	[75]	50	[350]	15	[100]	SPENCE MODEL ED, Cv=1.5, NORMAL PORT	
1-SPRV2	3B-111A	1-SH-15	1	130	[59]	165	[75]	50	[350]	15	[100]	SPENCE MODEL ED, Cv=1.5, NORMAL PORT	

								AIR FIL	TER S	CHED	ULE					
			SYSTEM		AIR FLOW		APD				HOUSING TYPE			CARTRIDGES		
MARK	LOCATION	AREA AND/OR BLDG SERVED	AND/OR	MERV RATING			INITIAL		CHANGEOVER			#	SIZE		ARRANGEMENT	REMARKS
			SERVICE		CFM	[∐s]	IN	[mm]	IN	[mm]		<i>π</i>	IN	[mm]	ANNANGLIVILINI	INLIVIATING
1-PF-14	3B-110	3/4 SOUTH	1-MAU-14	7	8300	[3900]	_				SIDE					
1-AF-14	3B-110	3/4 SOUTH	1-MAU-14	14	8300	[3900]					SIDE					
1-PF-15	3A-111A	3/4 NORTH	1-MAU-15	7	8300	[3900]					SIDE					
1-AF-15	3A-111A	3/4 NORTH	1-MAU-15	14	8300	[3900]					SIDE					
1-PF-29	BASEMENT ROOF	KITCHEN & BASEMENT	1-MAU-29	14	8000	[3800]					SIDE					
1-PF-30	7A-101	6th NORTH	1-MAU-30	14	1400	[660]					SIDE					
1-PF-31	7B-101	6th SOUTH	1-MAU-31	14	1400	[660]					SIDE					

				IN	TAKE L	OUVER S	CHEDU	JLE				·
MARK	LOCATION	SYSTEM AND/OR	TYPE	APPLICATION	THROAT SIZE		AIR FLOW		APD		DAMPER TYPE	REMARKS
		SERVICE			IN	[mm]	CFM	[L/s]	IN	[Pa]		
1-LOUV-1	PENTHOUSE NORTH	MAU-30	STATIONARY	INTAKE	48" W 32" H	1219.2 W 812.8 H	1800	[850]	0.03	[8]	N/A	
1-LOUV-2	PENTHOUSE SOUTH	MAU-31	STATIONARY	INTAKE	48" W 32" H	1219.2 W 812.8 H	1800	[850]	0.03	[8]	N/A	
								[]		[]		
								[]		[]		

Collaborative Design, Ltd 2727 Tuller Parkway, Suite 20 Dublin, Ohio 4301 Tel 614.798.1515 Project Number: 11025

Building 1

one-eighth inch = one foot 0 4 8 16 MERPHEREBER

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APPROVED: CHIEF, FACILITIES MANAGEMENT SERVICE LINE APPROVED: MEDICAL CENTER DIRECTOR APPROVED: SAFETY MANAGER JUSTIN GREENE CLAYTON HELMS, CHFM APPROVED: ASSOCIATE DIRECTOR for PATIENT CARE APPROVED: INFECTION CONTROL SERVICES/EXECUTIVE NURSE DEBRA LEGG, RN, MSN APPROVED: SERVICE LINE CHIEF

DRAWING TITLE: MECHANICAL KARIN L. McGRAW, MSN, FACHE SCHEDULES PROJECT No. APPROVED: ASSOCIATE DIRECTOR 517-11-105 PROJECT TITLE: DRAWN BY: HVAC NEGATIVE AIR CORRECTIONS J. BRIAN NIMMO, MS
APPROVED: CHIEF OF STAFF SCALE DATE REV. CHECKED BY: 07/06/2012 JPA JOHN D. BERRYMAN, M. D.

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